F. W. MORGAN

Geologist

RES. PHONE [redacted] ROOM 261 — 7701 E. KELLOGG WICHITA, KANSAS 67207 OFFICE 685-6361

378-3056
(Fredonia, Ks.)

Sept. 10, 1974

Premier Petroleum, Inc.
403 Hillcrest
Wichita, Kansas

Re: Your No. 1 Burke
Sec. 31-27S-3E
Butler County, Kansas

Gentlemen:

Enclosed is my geological log on the Burke well. On the log are drilling time plotted to scale, sample tops, drill stem test intervals and results, lithology, porous zones, and shows of oil and gas.

The Upper Zone of interest, the Stalnaker Gas Sand, was tested but had no gas showing and only a small amount of water, a negligible quantity. It did not appear to be very porous in the samples. This was confirmed by the log which showed all the sand above the water to be tight and very low in permeability.

The Lower Zone of interest, the Simpson Sand, was similar. There were only very slight shows of oil due to a lack of permeability that was apparent in both samples and electric log and confirmed by a drill stem test that recovered only 10 feet of drilling fluid. Both of these zones were in a favorable position structurally but lacked reservoir characteristics.

The Mississippian chert formation, almost absent in the other wells, developed more than 40 feet of porosity in this well but carried no oil shows. This zone is productive about 5 or 6 miles northwest of here in Eastborough.

The results of sample study, drill stem testing, and electric log interpretation agree that there is no chance of commercial production at this location, and the well was plugged.

Sincerely,

F..W. Morgan